

## Gregory, Bernarr

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**From:** PLUS  
**Sent:** Wednesday, September 01, 2004 8:25 AM  
**To:** Gregory, Bernarr  
**Subject:** PLUS Results for 10644311

Here are the PLUS search results for 10644311.

This search was prepared by the staff of the Scientific and Technical Information Center, SIRA. If you have questions or comments about this search, please reply via email to [PLUS@uspto.gov](mailto:PLUS@uspto.gov).



10644311\_QUAL.txt



10644311\_LIST.txt



10644311\_WEST.txt



10644311\_EAST.txt



10644311.east



10644311\_CLS.txt



10644311\_CLSTITLES.t  
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10644311\_WDS.txt

10644311\_QUAL

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6577271 68  
6304216 65  
6636178 65  
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10644311\_QUAL

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10644311\_QUAL

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10644311\_QUAL

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10644311\_QUAL

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5222099 52

11

PLUS Search Results for S/N 10644311, Searched August 31, 2004

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

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10644311\_LIST

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10644311\_EAST

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10644311\_CLS  
Most Frequently Occurring Classifications of Patents Returned  
From A Search of 10644311 on August 31, 2004

Original Classifications

35	342/357.12
28	375/150
10	701/213
8	342/357.06
8	375/149
6	342/357.02
6	375/343
5	342/357.09
5	342/357.1
5	342/357.15
5	342/378
5	375/148
4	342/357.01
4	342/357.05
4	375/130
4	375/147
4	375/346
3	342/352
3	342/418
3	375/142
3	701/207
2	342/357.04
2	342/357.08
2	342/357.11
2	370/335
2	375/134

Cross-Reference Classifications

34	342/357.12
34	701/213
26	375/150
19	342/357.06
18	342/352
14	701/214
10	375/149
10	375/367
8	375/130
7	342/357.1
7	342/357.15
7	375/140
7	375/142
6	342/357.05
6	342/457

10644311\_CLS

6 375/343  
5 342/357.02  
5 342/357.09  
5 342/357.13  
5 375/148  
5 375/346  
5 701/215  
4 342/357.01  
4 342/358  
4 342/378  
4 370/320  
4 375/137  
4 375/147  
4 455/12.1  
3 342/356  
3 342/418  
3 370/335  
3 370/342  
3 375/134  
3 375/152  
3 380/258  
3 380/34  
3 380/46  
2 342/194  
2 342/357.03  
2 342/357.07  
2 342/419  
2 370/252  
2 370/479  
2 370/503  
2 375/136  
2 375/344  
2 375/355  
2 380/255  
2 455/65

Combined Classifications

69 342/357.12  
54 375/150  
44 701/213  
27 342/357.06  
21 342/352  
18 375/149  
14 701/214  
12 342/357.1  
12 342/357.15  
12 375/130  
12 375/343



10644311\_CLS

11 342/357.02  
 10 342/357.05  
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 10 375/142  
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 8 342/357.01  
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 2 342/419  
 2 370/503  
 2 375/143  
 2 375/355  
 2 380/255  
 2 455/65  
 2 708/422  
 2 708/5

10644311\_CLSTITLES

Titles of Most Frequently Occurring Classifications of Patents Returned

From A Search of 10644311 on August 31, 2004

69	342/357.12	(35 OR, 34 XR)
	Class 342 :	COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES
	342/350	DIRECTIVE
	342/352	.Including a satellite
	342/357.01	..With position indicating
	342/357.06	...Using Global Positioning Satellite (GPS or Glonass)
	342/357.12	....GPS receiver signal processing
54	375/150	(28 OR, 26 XR)
	Class 375 :	PULSE OR DIGITAL COMMUNICATIONS
	375/130	SPREAD SPECTRUM
	375/140	.Direct sequence
	375/147	..Receiver
	375/150	...Correlation-type receiver
44	701/213	(10 OR, 34 XR)
	Class 701 :	DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION
	701/200	NAVIGATION
	701/207	.Employing position determining equipment
	701/213	..Using Global Positioning System (GPS)
27	342/357.06	(8 OR, 19 XR)
	Class 342 :	COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES
	342/350	DIRECTIVE
	342/352	.Including a satellite
	342/357.01	..With position indicating
	342/357.06	...Using Global Positioning Satellite (GPS or Glonass)
21	342/352	(3 OR, 18 XR)
	Class 342 :	COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES
	342/350	DIRECTIVE
	342/352	.Including a satellite
18	375/149	(8 OR, 10 XR)
	Class 375 :	PULSE OR DIGITAL COMMUNICATIONS
	375/130	SPREAD SPECTRUM
	375/140	.Direct sequence

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375/147           ..Receiver  
375/149           ...Having specific code synchronization

14   701/214           (0 OR, 14 XR)

Class   701 :   DATA PROCESSING: VEHICLES, NAVIGATION, AND  
RELATIVE LOCATION

701/200           NAVIGATION

701/207           ..Employing position determining equipment

701/213           ..Using Global Positioning System (GPS)

701/214           ...Means to improve accuracy of position or  
location

12   342/357.1       (5 OR, 7 XR)

Class   342 :   COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

342/350           DIRECTIVE

342/352           ..Including a satellite

342/357.01       ..With position indicating

342/357.06       ...Using Global Positioning Satellite (GPS or  
Glonass)

342/357.1       ....Combined with telecommunication

12   342/357.15     (5 OR, 7 XR)

Class   342 :   COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

342/350           DIRECTIVE

342/352           ..Including a satellite

342/357.01       ..With position indicating

342/357.06       ...Using Global Positioning Satellite (GPS or  
Glonass)

342/357.15       ....Satellite selection (i.e., tracking or  
acquisition)

12   375/130       (4 OR, 8 XR)

Class   375 :   PULSE OR DIGITAL COMMUNICATIONS  
375/130           SPREAD SPECTRUM

12   375/343       (6 OR, 6 XR)

Class   375 :   PULSE OR DIGITAL COMMUNICATIONS

375/316           RECEIVERS

375/340           ..Particular pulse demodulator or detector

375/343           ..Correlative or matched filter

11   342/357.02     (6 OR, 5 XR)

Class   342 :   COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

342/350           DIRECTIVE

342/352           ..Including a satellite

10644311\_CLSTITLES

342/357.01 ..With position indicating  
342/357.02 ...With accuracy enhancing

10 342/357.05 (4 OR, 6 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

342/350 DIRECTIVE  
342/352 .Including a satellite  
342/357.01 ..With position indicating  
342/357.05 ...Using Doppler frequency shift

10 342/357.09 (5 OR, 5 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

342/350 DIRECTIVE  
342/352 .Including a satellite  
342/357.01 ..With position indicating  
342/357.06 ...Using Global Positioning Satellite (GPS or  
Glonass)  
342/357.09 ....With transmission of location-indicative  
information to or from a remote station

10 375/142 (3 OR, 7 XR)

Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
375/130 SPREAD SPECTRUM  
375/140 .Direct sequence  
375/141 ..End-to-end transmission system  
375/142 ...Having correlation-type receiver

10 375/148 (5 OR, 5 XR)

Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
375/130 SPREAD SPECTRUM  
375/140 .Direct sequence  
375/147 ..Receiver  
375/148 ...Multi-receiver or interference cancellation

10 375/367 (0 OR, 10 XR)

Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
375/354 SYNCHRONIZERS  
375/362 .Frequency or phase control using synchronizin

g

signal  
375/365 ..Synchronization word  
375/367 ...Pseudo noise

9 342/378 (5 OR, 4 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS

10644311\_CLSTITLES  
AND DEVICES

- 342/350 DIRECTIVE  
342/378 .Utilizing correlation techniques
- 9 375/346 (4 OR, 5 XR)  
Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
375/316 RECEIVERS  
375/346 .Interference or noise reduction
- 8 342/357.01 (4 OR, 4 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/350 DIRECTIVE  
342/352 .Including a satellite  
342/357.01 ..With position indicating
- 8 375/147 (4 OR, 4 XR)  
Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
375/130 SPREAD SPECTRUM  
375/140 .Direct sequence  
375/147 ..Receiver
- 7 375/140 (0 OR, 7 XR)  
Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
375/130 SPREAD SPECTRUM  
375/140 .Direct sequence
- 6 342/418 (3 OR, 3 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/350 DIRECTIVE  
342/385 .Beacon or receiver  
342/417 ..Direction-finding receiver only  
342/418 ...Doppler
- 6 342/457 (0 OR, 6 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/350 DIRECTIVE  
342/450 .Position indicating (e.g., triangulation)  
342/457 ..Land vehicle location (e.g., bus, police car)
- 5 342/357.13 (0 OR, 5 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/350 DIRECTIVE  
342/352 .Including a satellite

10644311\_CLSTITLES

342/357.01 ..With position indicating  
 342/357.06 ...Using Global Positioning Satellite (GPS or  
                   Glonass)  
 342/357.13 ....With storage device (i.e., map or database

)

5 370/335 (2 OR, 3 XR)

Class 370 : MULTIPLEX COMMUNICATIONS  
 370/310 COMMUNICATION OVER FREE SPACE  
 370/328 .Having a plurality of contiguous regions  
                   served by respective fixed stations  
 370/329 ..Channel assignment  
 370/335 ...Combining or distributing information via  
                   code word channels using multiple access te

chniques (e.g.,

CDMA)

5 375/134 (2 OR, 3 XR)

Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
 375/130 SPREAD SPECTRUM  
 375/132 .Frequency hopping  
 375/133 ..End-to-end transmission system  
 375/134 ...Having specific code acquisition or trackin

g

5 455/12.1 (1 OR, 4 XR)

Class 455 : TELECOMMUNICATIONS  
 455/7 CARRIER WAVE REPEATER OR RELAY SYSTEM (I.E.,  
                   RETRANSMISSION OF SAME INFORMATION)  
 455/11.1 .Portable or mobile repeater  
 455/12.1 ..Space satellite

5 701/215 (0 OR, 5 XR)

Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND  
                   RELATIVE LOCATION  
 701/200 NAVIGATION  
 701/207 .Employing position determining equipment  
 701/213 ..Using Global Positioning System (GPS)  
 701/214 ...Means to improve accuracy of position or  
                   location  
 701/215 ....Having multiple GPS antennas or receivers  
                   (e.g., differential GPS)

4 342/356 (1 OR, 3 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                   AND DEVICES

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 342/350 DIRECTIVE  
 342/352 .Including a satellite  
 342/356 ..Synchronous satellite

4 342/358 (0 OR, 4 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/350 DIRECTIVE  
 342/352 .Including a satellite  
 342/358 ..With satellite signal correction

4 370/320 (0 OR, 4 XR)  
 Class 370 : MULTIPLEX COMMUNICATIONS  
 370/310 COMMUNICATION OVER FREE SPACE  
 370/315 .Repeater  
 370/316 ..Airborne or space satellite repeater  
 370/319 ...Multiple access (e.g., FDMA)  
 370/320 ....Code division (CDMA)

4 375/137 (0 OR, 4 XR)  
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
 375/130 SPREAD SPECTRUM  
 375/132 .Frequency hopping  
 375/136 ..Receiver  
 375/137 ...Having specific code acquisition or trackin

g

4 380/34 (1 OR, 3 XR)  
 Class 380 : CRYPTOGRAPHY  
 380/255 COMMUNICATION SYSTEM USING CRYPTOGRAPHY  
 380/270 .Wireless communication  
 380/33 ..Using plural paths or channels  
 380/34 ...Plural carrier frequencies

4 701/207 (3 OR, 1 XR)  
 Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND  
 RELATIVE LOCATION  
 701/200 NAVIGATION  
 701/207 .Employing position determining equipment

3 342/357.03 (1 OR, 2 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/350 DIRECTIVE  
 342/352 .Including a satellite  
 342/357.01 ..With position indicating  
 342/357.02 ...With accuracy enhancing

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342/357.03 ....Using differential correction

3 342/357.04 (2 OR, 1 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

342/350 DIRECTIVE

342/352 .Including a satellite

342/357.01 ..With position indicating

342/357.02 ...With accuracy enhancing

342/357.04 ....With ambiguity resolving

3 342/357.08 (2 OR, 1 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

342/350 DIRECTIVE

342/352 .Including a satellite

342/357.01 ..With position indicating

342/357.06 ...Using Global Positioning Satellite (GPS or  
Glonass)

342/357.08 ....Determining relative position (e.g.,  
distance or direction)

3 342/357.11 (2 OR, 1 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

342/350 DIRECTIVE

342/352 .Including a satellite

342/357.01 ..With position indicating

342/357.06 ...Using Global Positioning Satellite (GPS or  
Glonass)

342/357.11 ....Attitude determination

3 370/252 (1 OR, 2 XR)

Class 370 : MULTIPLEX COMMUNICATIONS

370/241 DIAGNOSTIC TESTING (OTHER THAN SYNCHRONIZATION

370/252 .Determination of communication parameters

3 370/342 (0 OR, 3 XR)

Class 370 : MULTIPLEX COMMUNICATIONS

370/310 COMMUNICATION OVER FREE SPACE

370/342 .Combining or distributing information via cod

e  
word channels using multiple access techniq  
ues (e.g., CDMA)



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- 3 370/479 (1 OR, 2 XR)  
     Class 370 : MULTIPLEX COMMUNICATIONS  
     370/473 ..Transmission of a single message having  
                     multiple packets  
     370/479 .Combining or distributing information via cod  
     word channels
- 3 375/136 (1 OR, 2 XR)  
     Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
     375/130 SPREAD SPECTRUM  
     375/132 .Frequency hopping  
     375/136 ..Receiver
- 3 375/152 (0 OR, 3 XR)  
     Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
     375/130 SPREAD SPECTRUM  
     375/140 .Direct sequence  
     375/147 ..Receiver  
     375/152 ...Matched-filter-type receiver
- 3 375/344 (1 OR, 2 XR)  
     Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
     375/316 RECEIVERS  
     375/344 .Automatic frequency control
- 3 380/258 (0 OR, 3 XR)  
     Class 380 : CRYPTOGRAPHY  
     380/255 COMMUNICATION SYSTEM USING CRYPTOGRAPHY  
     380/258 .Position dependent or authenticating
- 3 380/46 (0 OR, 3 XR)  
     Class 380 : CRYPTOGRAPHY  
     380/277 KEY MANAGEMENT  
     380/44 .Having particular key generator  
     380/46 ..Nonlinear (e.g., pseudorandom)
- 2 342/194 (0 OR, 2 XR)  
     Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                     AND DEVICES  
     342/175 WITH PARTICULAR CIRCUIT  
     342/194 .Complex signal (in phase and quadrature)
- 2 342/357.07 (0 OR, 2 XR)  
     Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                     AND DEVICES  
     342/350 DIRECTIVE  
     342/352 .Including a satellite

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342/357.01 ..With position indicating

342/357.06 ...Using Global Positioning Satellite (GPS or Glonass)

342/357.07 ....Tracking or monitoring (i.e., lost or stolen vehicles)

2 342/419 (0 OR, 2 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES

342/350 DIRECTIVE

342/385 .Beacon or receiver

342/417 ..Direction-finding receiver only

342/419 ...Portable

2 370/503 (0 OR, 2 XR)

Class 370 : MULTIPLEX COMMUNICATIONS

370/473 ..Transmission of a single message having multiple packets

370/498 .Combining or distributing information via time channels

370/503 ..Synchronizing

2 375/143 (1 OR, 1 XR)

Class 375 : PULSE OR DIGITAL COMMUNICATIONS

375/130 SPREAD SPECTRUM

375/140 .Direct sequence

375/141 ..End-to-end transmission system

375/143 ...Having matched-filter-type receiver

2 375/355 (0 OR, 2 XR)

Class 375 : PULSE OR DIGITAL COMMUNICATIONS

375/354 SYNCHRONIZERS

375/355 .Synchronizing the sampling time of digital data

2 380/255 (0 OR, 2 XR)

Class 380 : CRYPTOGRAPHY

380/255 COMMUNICATION SYSTEM USING CRYPTOGRAPHY

2 455/65 (0 OR, 2 XR)

Class 455 : TELECOMMUNICATIONS

455/39 TRANSMITTER AND RECEIVER AT SEPARATE STATIONS

455/63.1 .Distortion, noise, or other interference prevention, reduction, or compensation

455/65 ..Anti-multipath

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2	708/422	(1 OR, 1 XR)	
	Class	708 :	ELECTRICAL COMPUTERS: ARITHMETIC PROCESSING AND CALCULATING
	708/100		ELECTRICAL DIGITAL CALCULATING COMPUTER
	708/200		.Particular function performed
	708/422		..Correlation

  

2	708/5	(1 OR, 1 XR)	
	Class	708 :	ELECTRICAL COMPUTERS: ARITHMETIC PROCESSING AND CALCULATING
	708/1		ELECTRICAL HYBRID CALCULATING COMPUTER
	708/3		.Particular function performed
	708/5		..Correlation, convolution, or transformation

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accarately 1  
accllmlulates 1  
accordanc 1  
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according 3  
accounted 2  
accurately 1  
achieve 1  
achieved 3  
acp 1  
actual 2  
added 1  
additional 1  
af 1  
aints 1  
al 2  
algorithm 1  
allows 1  
along 7  
also 3  
alters 1  
an 18  
analyses 1  
analysis 6  
analyzing 1  
and 58  
another 2  
ansmissions 1  
aparticular 1  
applicatiohs 1  
application 5  
applications 3  
approximately 2  
ar 1  
arbi 1  
arbitrary 1  
are 25  
arin 1  
arotmd 1  
array 9  
arrays 12  
art 3  
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as 8  
assiree 1  
assuming 1  
at 18  
ates 2  
atis 1  
attempts 1  
attomey 1  
avoid 1  
away 3  
background 2  
base 1  
baseband 2  
be 13  
because 3  
been 2  
before 2  
begin 1  
beginning 2  
begirming 1  
between 8  
beyond 1  
block 2  
bmse 1  
both 2  
briefdescription 1  
broadly 1  
by 20  
can 4  
capability 1  
capttlre 1  
capture 2  
captured 1  
carrier 1  
case 2  
caused 1  
ceases 1  
ceived 1  
certain 1  
ch 1  
chip 1  
chips 3  
circuitry 9  
circuitzy 1  
circularly 1  
civil 1  
claim 1  
code 39

codes 2  
coherent 1  
collection 1  
column 1  
combin 1  
combinations 2  
combine 4  
combined 9  
combining 2  
command 1  
commands 1  
common 1  
compdses 1  
compiises 1  
comprises 3  
computer 1  
configured 1  
configu 1  
cons 1  
consequently 2  
consistent 1  
constraints 1  
continuation 1  
continues 2  
converts 1  
copeniding 1  
corpsponding 1  
correct 1  
corrected 1  
correction 1  
corrects 1  
correl 1  
correlates 1  
correlati 1  
correlating 3  
correlation 30  
correspond 1  
corresponding 5  
corresponds 5  
cp 1  
crystal 1  
cumulative 7  
data 19  
dedved 1  
defined 1  
defme 1  
defned 3  
delay 3

demodulates 1  
depee 2  
derived 1  
derives 1  
descdbed 1  
description 1  
desned 1  
detect 1  
detected 1  
detection 2  
detector 13  
detects 2  
detem 1  
detennined 1  
detennines 1  
determine 3  
determined 5  
determines 3  
determining 1  
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diapam 2  
diapnm 1  
diff 1  
difference 5  
different 5  
differing 1  
difficult 1  
directs 2  
disadvantages 2  
disclosure 1  
disjoint 1  
disjowg 1  
distance 5  
distind 1  
dkt 1  
dmwings 1  
docket 12  
doppler 16  
ds 1  
dudng 1  
during 1  
each 18  
earth 2  
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effect 1  
effective 1  
effort 1

either 1  
element 1  
embodiment 21  
embodiments 1  
employing 1  
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entitled 3  
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environment 1  
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equation 5  
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example 7  
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expedence 1  
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experience 2  
extemal 2  
extend 1  
extension 1  
fame 1  
feasible 1  
feld 1  
fhe 1  
field 1  
figizre 1  
figtzre 1  
figure 11  
figures 3  
filed 3  
filtek 1  
filter 6  
finite 2  
first 5  
flowchart 1  
flows 1  
flrst 1



filter 2  
fn 1  
following 1  
follows 1  
for 40  
forego 1  
foregoing 4  
forgo 1  
forth 1  
fps 2  
fractional 1  
frame 4  
frequency 1  
from 11  
full 1  
fully 1  
functions 1  
fzom 1  
gactions 1  
game 1  
generated 3  
generates 2  
generator 2  
gequency 3  
gequent 1  
given 2  
global 1  
gom 6  
gps 38  
has 3  
have 2  
having 2  
he 4  
hence 1  
hereby 1  
herein 3  
hereof 1  
herewith 1  
high 1  
hmotheses 1  
hypotheses 7  
hypothesis 8  
ication 1  
icular 1  
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ikhr 1  
illus 1  
illust 1  
illustrate 1  
illustrated 3  
illustrates 7  
illustrating 1  
implementation 9  
imposed 1  
improve 1  
in 49  
incomorated 1  
incoporated 1  
increase 1  
indefinitely 1  
information 2  
initialized 1  
input 1  
inputs 1  
integrated 1  
intemally 1  
intepated 1  
interest 1  
interference 2  
intersection 1  
into 1  
invent 1  
invention 14  
is 72  
issued 1  
it 8  
itj 1  
its 3  
ixhr 1  
kansmission 2  
kansmissions 2  
kansmitling 1  
kc 1  
khr 2  
kl 2  
kl11 1  
kllr 1  
klm 1  
larger 1  
latter 1

lcnown 1  
lcnows 1  
lcp 1  
least 4  
length 1  
lengths 2  
level 2  
lf 1  
limit 1  
limited 1  
limits 1  
line 1  
lk 1  
llites 1  
llniiform 1  
ln 7  
lnknown 1  
local 2  
locally 1  
located 1  
location 2  
locks 1  
los 7  
lter 1  
lyon 2  
lz 2  
maintained 2  
manner 1  
maown 1  
march 1  
mark 4  
marks 1  
matched 10  
maximizes 1  
may 5  
measlzrement 1  
measmement 1  
meastlrement 1  
measure 1  
measurement 1  
media 1  
method 6  
methods 1  
mhz 1  
mile 1  
miles 1  
millisecond 1  
mixture 1

ml 2  
mobile 2  
modulated 1  
modulo 2  
more 1  
moreover 1  
movement 2  
moving 5  
ms 3  
multiple 2  
multiplying 1  
must 3  
ne 1  
need 2  
negative 3  
nen 1  
nes 1  
new 2  
next 1  
ng 1  
no 15  
noise 8  
nominal 1  
non 6  
nos 2  
not 3  
number 1  
obtain 1  
obtained 3  
occtlrs 1  
occurrence 1  
occurrences 1  
occurs 1  
of 151  
offset 8  
offsets 2  
oi 1  
om 5  
on 4  
one 18  
onto 1  
operation 11  
or 2  
orbit 1  
orbiting 1  
orbits 1  
os 2  
oscillator 1

osi 1  
osl 1  
osz 1  
other 2  
out 1  
output 1  
outputs 1  
over 4  
overcomes 2  
overlapping 1  
owned 1  
page 11  
part 3  
particular 8  
patent 2  
pdor 1  
peak 1  
peater 1  
pedods 1  
perceived 1  
perfbrming 1  
performs 1  
period 5  
periodic 1  
periods 3  
permit 1  
ph 2  
phase 18  
phases 2  
phone 4  
pllzrality 1  
plmality 1  
plurality 3  
pm 1  
pmicular 1  
pn 17  
points 1  
portion 1  
positioning 1  
positive 2  
possibly 1  
poupings 1  
practical 1  
precise 4  
preferred 1  
presence 4  
prior 2  
priority 1

pro 1  
problem 1  
process 5  
processes 1  
processing 3  
processor 5  
produced 1  
provided 5  
provides 1  
pseudo 1  
purpose 2  
qkdoppler 1  
radio 2  
radius 1  
range 4  
ranges 1  
rate 2  
ratio 6  
readable 1  
receive 1  
received 11  
receiver 47  
receivers 1  
receives 1  
receivtr 1  
reference 2  
reflected 1  
related 3  
relates 1  
relation 1  
relative 2  
rence 1  
repeated 2  
represented 1  
required 1  
respectively 1  
responsive 3  
result 1  
resulting 1  
results 5  
rf 2  
rhe 2  
rkl 1  
rouped 1  
row 8  
rows 2  
rrrelation 1  
same 1

sample 2  
samples 10  
sampling 11  
sat 1  
satellite 42  
satellites 8  
se 1  
second 9  
sedal 1  
seggnts 1  
segment 4  
segments 4  
segmentisy 1  
sement 1  
sends 1  
senent 1  
senents 1  
separate 1  
separated 1  
sepnent 12  
sepnents 7  
september 1  
sepuents 1  
sequence 1  
ser 1  
serent 1  
serents 2  
serial 1  
set 2  
shiaed 3  
shifk 1  
shift 6  
shifted 2  
shih 1  
shir 4  
should 1  
shown 1  
shows 1  
si 1  
sight 1  
signal 11  
signifcantly 1  
siift 1  
similarly 2  
sinal 1  
since 2  
sion 1  
sipzal 2

siral 21  
sirals 2  
situation 1  
size 1  
sl 1  
slaih 1  
slli 1  
sllih 1  
sllir 1  
slter 1  
sltih 2  
smchronization 1  
snmples 5  
snmpling 2  
snr 1  
so 1  
span 1  
spe 1  
specific 1  
specifically 1  
spectrum 1  
sphere 2  
spheres 1  
spread 1  
srst 1  
start 2  
strucmres 1  
subject 14  
subsequent 1  
successively 1  
such 4  
suffciently 1  
sufficient 2  
summmw 1  
surface 1  
system 1  
taken 1  
tansmission 1  
tansmittinj 1  
taveled 1  
tcsign 1  
terms 1  
tested 1  
th 1  
than 1  
that 12  
the 300  
then 5



there 4  
thereto 1  
these 1  
this 13  
those 1  
though 1  
three 2  
threshold 1  
throug 1  
through 2  
thus 1  
time 15  
times 2  
timing 8  
tion 1  
tj 1  
tkeshold 1  
tllis 1  
tltis 1  
tlu 1  
tmically 1  
tmique 1  
to 68  
total 1  
towards 2  
transmi 1  
transmission 7  
transmissionj 1  
transmits 2  
transmitter 2  
tranxzrlissions 1  
travels 2  
ttsiunal 1  
unacceptable 1  
uniform 2  
until 4  
use 1  
used 3  
uses 1  
using 2  
usually 1  
ut 1  
utility 1  
va 1  
value 3  
values 1  
variable 1  
various 2

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vatched 1  
vc 1  
velocity 4  
velocityv 1  
versions 2  
visible 1  
wavelength 2  
weak 2  
wention 2  
when 3  
where 1  
wherein 2  
which 26  
wilich 1  
will 3  
window 4  
windows 1  
wireless 2  
with 26  
within 2  
wl 1  
would 1  
wtegmtion 1